## **Claims**CLAIMS

## What is claimed:

1. (Original) An intervertebral prosthesis comprising a first plate and a second plate, wherein each plate comprises a substantially flat bone engaging surface with a macro-textured surface capable of rasping an interstitial bone surface, and one or more lugs which on intervertebral insertion of the prosthesis abut a non-interstitial surface of the vertebrae to limit insertion of the prosthesis.

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- 2. (Original) The intervertebral prosthesis of claim 1, wherein the macrotextured surfaces are disc shaped.
- 3. (Currently Amended) The intervertebral prosthesis of any one of the preceding claims claim 1, that does not comprise any fixing means or holes for receiving such fixing means for fixing the prosthesis to a non-interstitial surface of a vertebra.
- 4. (Currently Amended) The intervertebral prosthesis of any one of the preceding claims claim 1, wherein each plate comprises a non-textured area located between the macro-textured surface and the one or more lugs.
  - 5. (Currently Amended) The intervertebral prosthesis of any one of the preceding claims of any one of the preceding claim
  - 6. (Currently Amended) The intervertebral prosthesis of any one of the preceding claims claim 1, wherein the non-textured area forms a border between the macro-textured surface and the one or more lugs having a variable width of between 2 and 10 mm.
  - - 7. (Currently Amended) The intervertebral prosthesis of any one of the preceding claims claim 1, wherein the one or more lugs are positioned on one side of each plate.

- 8. (Currently Amended) The intervertebral prosthesis of any one of the preceding claims 1, wherein each plate comprises two lugs.
- 9. (Currently Amended) The intervertebral prosthesis of any one of the preceding claimsclaim 1, wherein the edge of each plate that is inserted into the intervertebral gap is termed the posterior edge and the opposing edge is termed the anterior edge, and wherein the lugs are positioned on the anterior edge of each plate.

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- 10. (Original) The intervertebral prosthesis of claim 9, wherein there is a chamfer at the posterior edge of each plate of the intervertebral prosthesis to assists with the insertion of the intervertebral prosthesis.
- 15 11. (Currently Amended) The intervertebral prosthesis of any one of the preceding claims claim 1, wherein the lugs are capable of engaging an insertion tool.
- 12. (Currently Amended) The intervertebral prosthesis of any one of the preceding claimsclaim 1, wherein the lugs are prism shaped.
  - 13. (Currently Amended) The intervertebral prosthesis of claim 12, wherein the each prism shaped lug is orientated so that its flat base faces anteriorly and the posteriorly facing apical edge will engage with the anterior non-interstitial surfaces of the vertebrae on intervertebral insertion.

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14. (Currently Amended) The intervertebral prosthesis of any one of the preceding claims claim 1, wherein the first and second plates are articulated together so as to provide a physiological range of motion between the plates.

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15. (Currently Amended) The intervertebral prosthesis of any one of the preceding claims claim 1, wherein the macro-textured surface comprises pockets or pits having a radius of generally greater than 0.4 mm.

- 16. (Currently Amended) The intervertebral prosthesis of any one of the preceding claims of any one of the zirconium or any biocompatible equivalent.
- 17. (Currently Amended) An abrasive trial device having substantially the same dimensions as the intervertebral prosthesis according to any one of claims claim 1 to 16, and including one or more lugs that correspond in size, shape and position to those of the intervertebral prosthesis of any one of claims claim 1 to 16, wherein the surfaces of the plates of the trial device have an abrasive surface for smoothing the vertebral end plates.
  - 18. (Original) The abrasive trial device according to claims 17, wherein the abrasive surfaces comprise a series of cutting edges or a diamond studded surface, to produce a file or fine rasp-like surface.
  - 19. (Currently Amended) The abrasive trial device according to claim 17—or claim 18, which can be connected to an insertion tool via the one or more lugs.
  - 20. (Currently Amended) The abrasive trial device according to claim 17—or claim 18, which is formed as a single unit with an elongated handle enabling its insertion into an intevertebral space.
    - 21. (Currently Amended) A sizing trial device having substantially the same dimensions as the intervertebral prosthesis of any one of claims claim 1 to 16, and comprising one or more prism shaped lugs that correspond in size, shape and position to those of the intervertebral prosthesis according to claim 12.
    - 22. (Currently Amended) An insertion tool comprising:

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- a shaft having a proximal end and a distal end wherein the proximal end comprises a grip and the distal end comprises two prosthesis engaging arms that are biased apart; and
- a cylinder having a proximal and distal end in rotational engagement around the main shaft.
- wherein the distal end of the cylinder contacts the prosthesis engaging arms, and wherein on rotation of the cylinder in a distal direction, the distal end of the

cylinder forces the prosthesis engaging arms together to grip ar invertebral intervertebral prosthesis according to any one of claims claim 1 to 16.

- 23. (Currently Amended) A kit comprising one or more invertebral intervertebral prostheses according to any one of claims claim 1 to 16, one or more abrasive trial devices according to any one of claims claim 17 to 20 and one or more sizing trial devices according to claim 21.
- 24. (Original) The kit according to claim 23 which additionally comprises the insertion tool according to claim 22.
  - 25. (Currently Amended) The kit according to claim 23 or claim 24, which comprises a series of different sized invertebral intervertebral prostheses as well as a corresponding series of different sized abrasive trial devices and sizing trial devices.
  - 26. (Currently Amended) A method for inserting the intervertebral prosthesis according to any one of claims claim 1—to 16 comprising:

preparing the vertebral end plates between which the invertebral intervertebral prosthesis is to be inserted, by inserting and moving the abrasive trial device according to any one of claims claim 17-to 20 within the invertebral space so as to smooth the end plates and to ensure that the one or more lugs of the trial device engage a non-interstitial surface of the vertebrae; and

inserting the intervertebral prosthesis into the prepared intervertebral space; and

moving the prosthesis within the intervertebral space to ensure that the macro-textured surface engages the vertebral end plates.

27. (Currently Amended) A method for removing the invertebral intervertebral prosthesis according to any one of claims claim 1 to 16 from an intervertebral space comprising passing a fine chisel or osteotome between the macrotextured surface of each end plate and the vertebral end plates.

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- 28. (Currently Amended) The invertebral intervertebral prosthesis of any one of claims claim 1 to 16 for use in therapy.
- 29. (Currently Amended) The abrasive trial device according to any one of claims claim 17 to 20 or the sizing trial device according to claim 21 for use in therapy.